

## **ABSTRACT OF THE DISCLOSURE**

A composition for fabricating phase-change-material microcapsule and a method for fabricating microcapsule are provided. The composition at least  
5 includes 5% to 40 % weight percentage of waterborne polyurethane aqueous solution, phase change material, monomer and solid wax. The lipophilic monomer solves in the phase change material and the weight percentage is between about 3% and 12% and the weight ratio of lipophilic monomer to waterborne polyurethane is between about 25% and 50%. The composition is  
10 emulsified by stirring and several stages heating process is performed to fabricate the microcapsules.